

**Amendments to the Claims:**

This listing of claims replaces all prior versions and listings of claims in this application.

**Listing of Claims:**

1. (Currently amended) A dental crown configured to be readily mountable in a patient's mouth as part of a treatment of primary teeth and permanent molars, the dental crown having a natural appearance and color of a vital tooth and comprising  
  
a tooth shaped top surface and  
  
depending flexible side surfaces extending continuously around edges of said tooth shaped top surface and extending continuously from a tooth shaped top surface end of the dental crown to an end opposite said tooth shaped top surface end of the dental crown, said dental crown being formed of a thermoplastic material enabling dimensional stability and sufficient resilience of the crown,  
  
at least one of said depending flexible ~~continuous~~ side surfaces ~~having an inner surface shaped with~~ formed with an undercut defining an inwardly directed bottom portion, thereby enabling the dental crown to be ~~used for treatment of~~ mounted on a primary teeth and tooth or permanent molar[[s,]]  
  
~~wherein said dental crown is formed of a resilient and dimensionally stable thermoplastic material such that said dental crown returns to its original shape upon being applied to and removed from a patient's dentition.~~
2. (Currently Amended) A dental crown according to claim 1, wherein said thermoplastic ~~polymer material comprising~~ comprises a polymer selected from polyacetal, polyacrylate, polymethylmethacrylate (PMMA), polyamide, polyaryletherketone (PAEK), polyetherketone (PEK),

polyetheretherketone (PEEK), polyetherimide (PEI), polyethersulfone (PES), polysulfone (PSU), and mixtures thereof.

3. (Previously presented) A dental crown according to claim 2, wherein said polymer is a homo- or co-polymer of acetal resin, polyetheretherketone (PEEK) or polymethylmethacrylate (PMMA).
4. (Currently Amended) A dental crown according to claim 1, wherein said thermoplastic ~~polymer material further comprising~~ comprises at least one of the following: fibers, fillers, pigments and reinforcements.
5. (Original) A dental crown according to claim 1, formed by injection molding.
6. (Previously presented) A dental crown according to claim 5, produced by a mass production injection molding method, said mass production injection molding method comprising:  
  
    providing a multi-element mold; and  
  
    employing the multi-element mold to injection mold a dental crown from a thermoplastic polymer material.
7. (Original) A dental crown according to claim 6, wherein said multi-element mold includes an ejector, which is being operated to eject the molded crown following opening the multi-element mold.
8. (Original) A dental crown according to claim 1, formed by compression molding.

9. (Original) A dental crown according to claim 1, formed by machining.
10. (New) A dental crown configured to be mounted in a patient's mouth as part of treatment of primary teeth and permanent molars,
- the dental crown being made of acetal homopolymer resin and having a natural appearance and color of a vital tooth,
- the crown having a tooth shaped top surface and depending flexible side surfaces extending continuously around edges of said tooth shaped top surface and extending continuously from a tooth shaped top surface end of the dental crown to an end opposite said tooth shaped top surface end of the dental crown,
- said dental crown being dimensionally stable and having sufficient resilience,
- at least one of said depending flexible continuous side surfaces being formed with an undercut defining an inwardly directed bottom portion, thereby enabling the dental crown to be readily mountable on a primary tooth or permanent molar.
11. (New) A method for manufacturing a dental crown to be used for treatment of primary teeth and permanent molars, the method comprising:
- providing a mold cavity defined by a top mold element, a bottom mold element and an ejector, the top mold element having a cut channel;
- injecting acetal homopolymer resin material into the mold cavity through said cut channel thereby forming a molded dental crown in said cavity; and
- separating the bottom mold element from the top mold element allowing removal of the molded crown from said cavity.